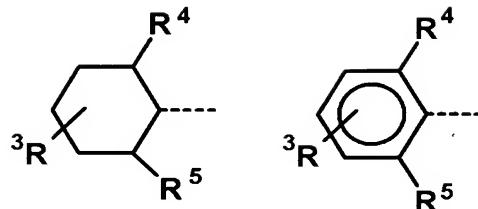


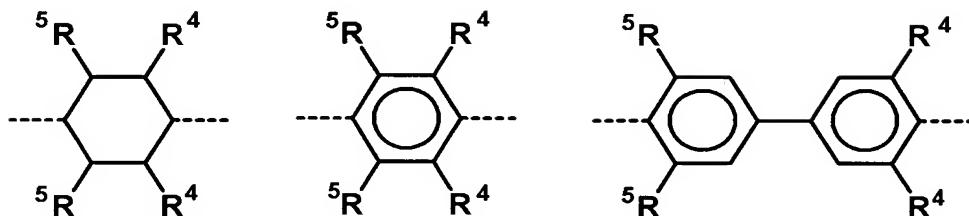
n is 1 or 2,

on the condition that

for n = 1 R<sup>1</sup> has the meaning



and for n = 2 R<sup>1</sup> has the meaning



R<sup>2</sup> is a C<sub>1</sub> to C<sub>12</sub> alkylene radical, C<sub>4</sub>-C<sub>8</sub> cycloalkylene radical or C<sub>7</sub> to C<sub>15</sub> alkylene phenylene radical;

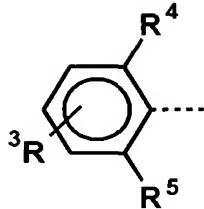
R<sup>3</sup> is hydrogen, a C<sub>1</sub> to C<sub>5</sub> alkyl radical or a C<sub>1</sub> to C<sub>5</sub> O-alkyl radical; and

R<sup>4</sup>, R<sup>5</sup> independently of each other, each stand for a C<sub>1</sub> to C<sub>5</sub> alkyl radical or a C<sub>1</sub> to C<sub>5</sub> O-alkyl radical.

2. (Currently Amended) Acrylic ester phosphonic acid according to claim 1, characterized in that wherein one or more of the variables of Formula (I), independently of each other, have the following meaning:

n = 1,

$R^1 =$



$R^2 =$  a C<sub>1</sub> to C<sub>6</sub> alkylene radical;

$R^3 =$  hydrogen, a C<sub>1</sub> to C<sub>3</sub> alkyl radical; and

$R^4, R^5 =$  independently of each other, a C<sub>1</sub> to C<sub>3</sub> alkyl radical.

3. (Currently Amended) Acrylic ester phosphonic acid according to claim 1 or 2, characterized in that wherein the radicals R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup> and/or R<sup>5</sup> are unsubstituted or substituted by one or more substituents selected from the group Cl, Br, CH<sub>3</sub>O, OH, COOH, CN, =O, =S, =NR<sup>6</sup> or -NR<sup>7</sup>-CO-C(=CH<sub>2</sub>)CH<sub>2</sub>-Y-R<sup>8</sup>-PO(OH)<sub>2</sub>, wherein R<sup>6</sup> and R<sup>7</sup>, independently of each other, each stand for hydrogen, a straight-chained or branched C<sub>1</sub> to C<sub>10</sub> alkyl or C<sub>6</sub> to C<sub>10</sub> aryl radical and R<sup>8</sup> is a straight-chained or branched C<sub>1</sub> to C<sub>10</sub> alkylene or C<sub>6</sub> to C<sub>14</sub> arylene radical.

4. (Currently Amended) Composition, characterized in that it contains containing an acrylic ester phosphonic acid according to one of claims 1 to 3 claim 1.

5. (Currently Amended) Composition according to claim 4, further comprising characterized in that it additionally contains a radically polymerizable monomer.

6. (Currently Amended) Composition according to claim 5, characterized in that it contains containing an acrylamide and/or a hydroxyalkyl acrylamide as a radically polymerizable monomer.

7. (Currently Amended) Composition according to claim 5, containing or 6, characterized in that it contains a monofunctional and/or a multifunctional radically polymerizable monomer.

8. (Currently Amended) Composition according to claim 7, ~~characterized in that it contains~~ containing as a monofunctional radically polymerizable monomer one or more hydrolysis-stable mono(meth)acrylates, mesityl methacrylate, one or more 2-(alkoxymethyl)acrylic acids, 2-(ethoxymethyl)acrylic acid, 2-(hydroxymethyl)acrylic acid, one or more N-mono- or N-disubstituted acrylamides, N-ethylacrylamide, N,N-dimethacrylamide, N-(2-hydroxyethyl)acrylamide, N-(2-hydroxyethyl)-N-methylacrylamide, one or more N-monosubstituted methacrylamides, N-ethylmethacrylamide, N-(2-hydroxyethyl)methacrylamide, N-vinylpyrrolidone, allyl ether or a mixture of two or more of these monomers.

9. (Currently Amended) Composition according to claim 7, ~~containing or 8,~~ ~~characterized in that it contains~~ as a multifunctional radically polymerizable monomer one or more urethanes from 2-(hydroxymethyl)acrylic acid and diisocyanates, 2,2,4-trimethylhexamethylene diisocyanate, isophorone diisocyanate, one or more crosslinking pyrrolidones, 1,6-bis(3-vinyl-2-pyrrolidonyl)-hexane, one or more bisacrylamides, methylene bisacrylamide, ethylene bisacrylamide, one or more bis(meth)acrylamides, N,N'-diethyl-1,3-bis(acrylamido)-propane, 1,3-bis(methacrylamido)-propane, 1,4-bis(acrylamido)-butane, 1,4-bis(acryloyl)-piperazine or a mixture of two or more of these monomers.

10. (Currently Amended) Composition according to ~~one of claims 4 to 9,~~ ~~characterized in that it additionally contains~~ claim 9, further comprising an initiator for radical polymerization.

11. (Currently Amended) Composition according to ~~one of claims 4 to 10,~~ ~~characterized in that it additionally contains~~ claim 4, further containing a filler.

12. (Currently Amended) Composition according to ~~one of claims 4 to 10,~~ ~~characterized in that it additionally contains~~ claim 4, further comprising a solvent.

13. (Currently Amended) Composition according to ~~one of claims 4 to 12,~~ ~~characterized in that it additionally contains~~ claim 4, further comprising a (meth)acrylamidoalkyl dihydrogen phosphate.

14. (Currently Amended) Composition according to claim 4, containing one of claims 4 to 13, characterized in that it contains

- a) 0.5 to 70 wt.-% acrylic ester phosphonic acid according to claim 1 or 2;
- b) 0.01 to 15 wt.-% initiator for radical polymerization;
- c) 0 to 80 wt.-% radically polymerizable monomer;
- d) 0 to 95 wt.-% solvent;
- e) 0 to 50 wt.-%, (meth)acrylamidoalkyl dihydrogen phosphate, and/or
- f) 0 to 75 wt.-% filler.

15. (Currently Amended) Use of a composition according to one of claims 4 to 14 as A dental material comprising a composition according to claim 4.

16. (Currently Amended) Use according to claim 15 as A cement or adhesive comprising a composition according to claim 4.

17. (Currently Amended) Use of an acrylic ester phosphonic acid according to one of claims 1 to 3 for the preparation of a A dental material comprising an acrylic ester phosphonic acid according to claim 1.